

EXPRESS MAIL # EF281842605 US

ABSTRACT OF THE DISCLOSURE

A method and product for removing at MTBE molecules from a solution, such as a contaminated aquifer, includes exposing the solution to a plurality of molecularly imprinted polymer beads (MIPS) that have receptor sites on the surfaces thereof that include imprints that match the physical shape of at least a portion of an MTBE molecule. A quantity of the MTBE molecules align with and adhere to some of the receptor sites and, accordingly, they are removed from the solution producing a remediated solution. According to one embodiment, the MIPS are contained in an enclosure having a plurality of openings large enough to permit the solution to pass through and small enough so as to prevent the MIPS from passing through. According to a preferred embodiment the MIPS are applied (i.e., coated) to the inside surface of a conduit and the solution is forced or allowed to flow through the conduit thereby removing some of the MTBE molecules therefrom.